

FIG. 2

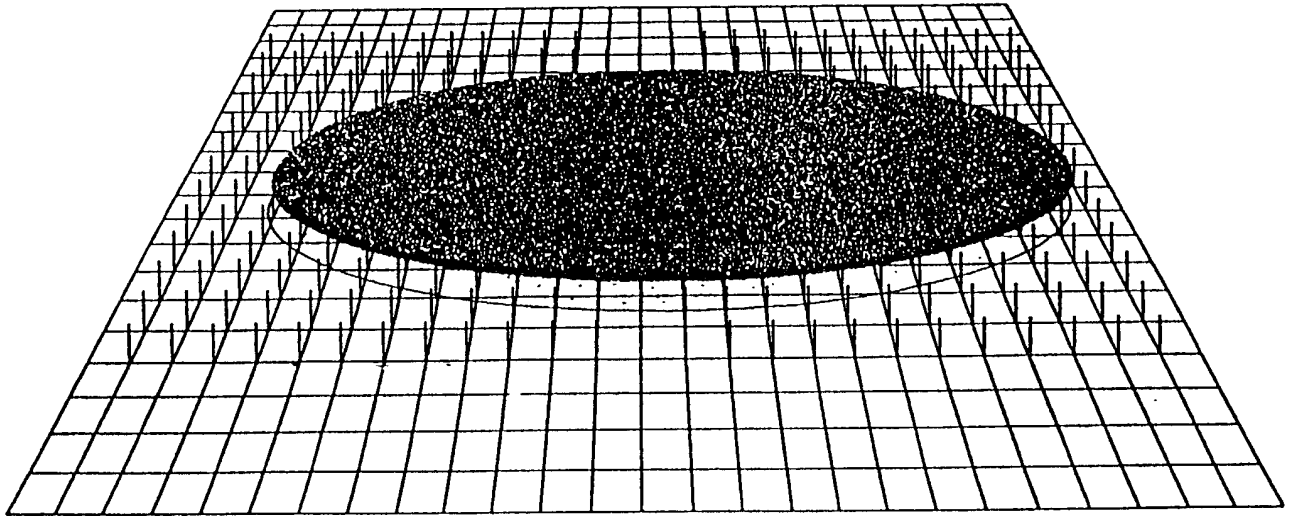


FIG. 4

[REDACTED]

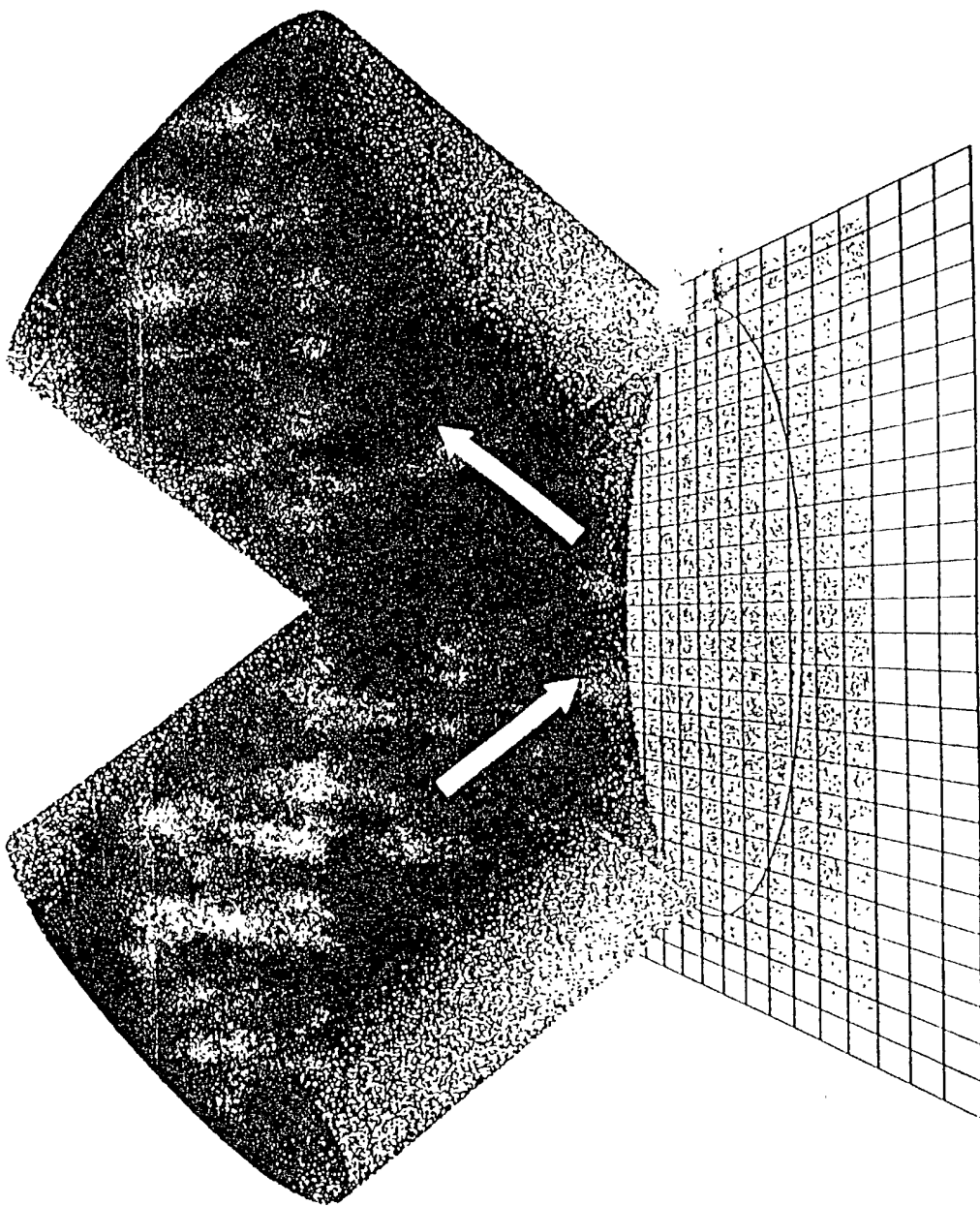


FIG. 7

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

FIG. 9

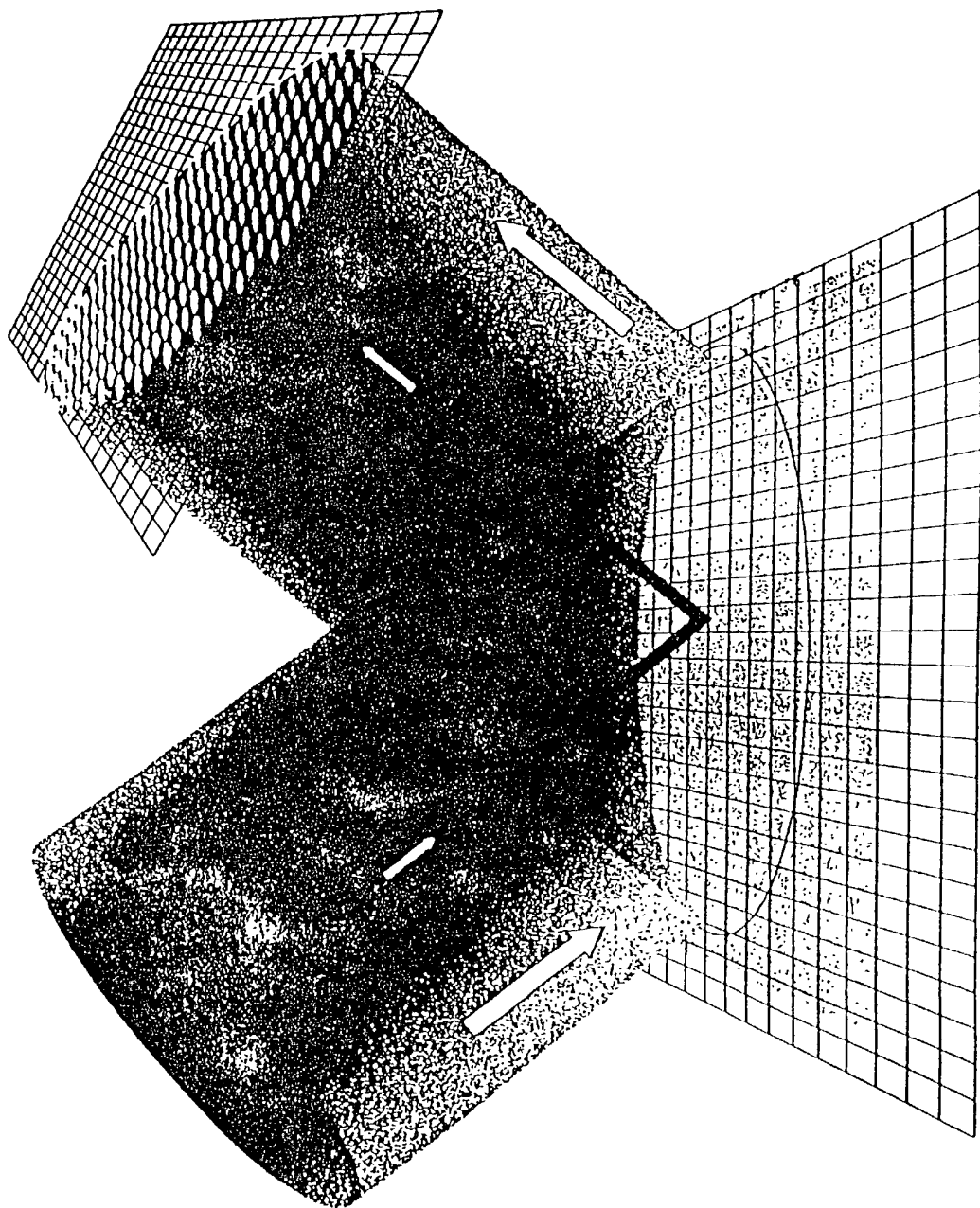


FIG. 10

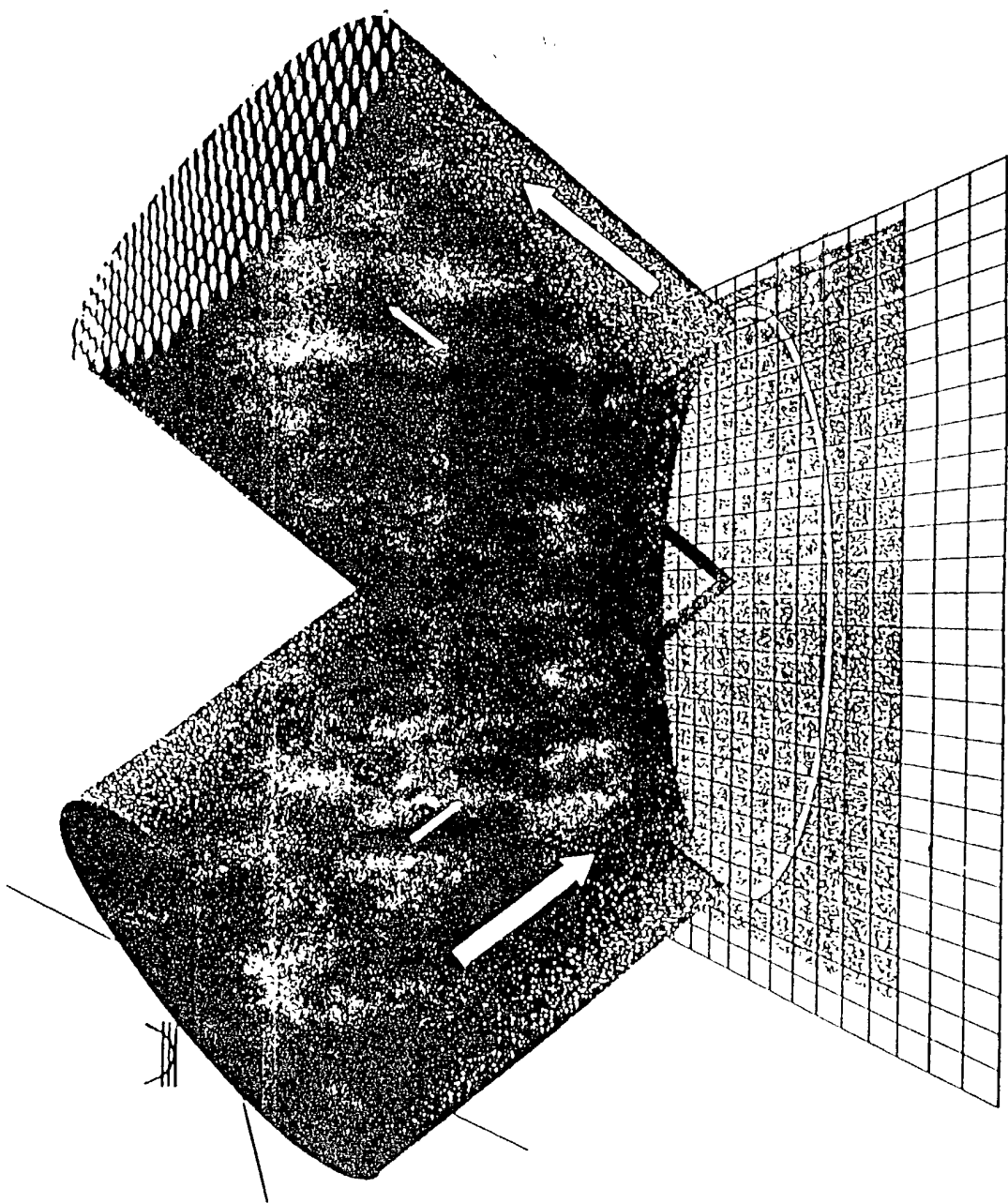


FIG. 11

FIG. 11 is a perspective view of a rectangular block 100, which is divided into two main sections by a vertical line 102. The left section 104 is shaded with a dense stippled pattern, while the right section 106 is lighter. Three white arrows 108 point from the left section 104 towards the right section 106, indicating a flow or direction. The top surface 110 of the block 100 is covered in a grid pattern, and the right side surface 112 is also covered in a grid pattern. The block 100 is shown in a perspective view, with lines indicating its edges and depth.

Examples of Optical Signal Formats

Principle	Label Type	Instrument	DDx Status
Scatter	polymer beads/particles	scatterometry	demonstrated
	silica beads /particles		
	magnetic beads/particles		
	metal beads/particles		
	metal coated beads/particles		
Optical absorption	colloidal gold	reflectometry	scheduled
	magnetic beads	photometry	
Change in polarization state	polymer beads	ellipsometry (with compensator)	scheduled
	silica beads	polarimetry (wout compensator)	
Change in refractive index	high refractive index or optically active materials	ellipsometry (with compensator)	scheduled
		polarimetry (wout compensator)	
Chiral effects	azio dyes		envisioned
	chiral compounds		
Diffraction effects	patterned surface	interferometry	envisioned
Spectroscopic effects	wavelength selective materials	spectrometer	envisioned

FIG. 12

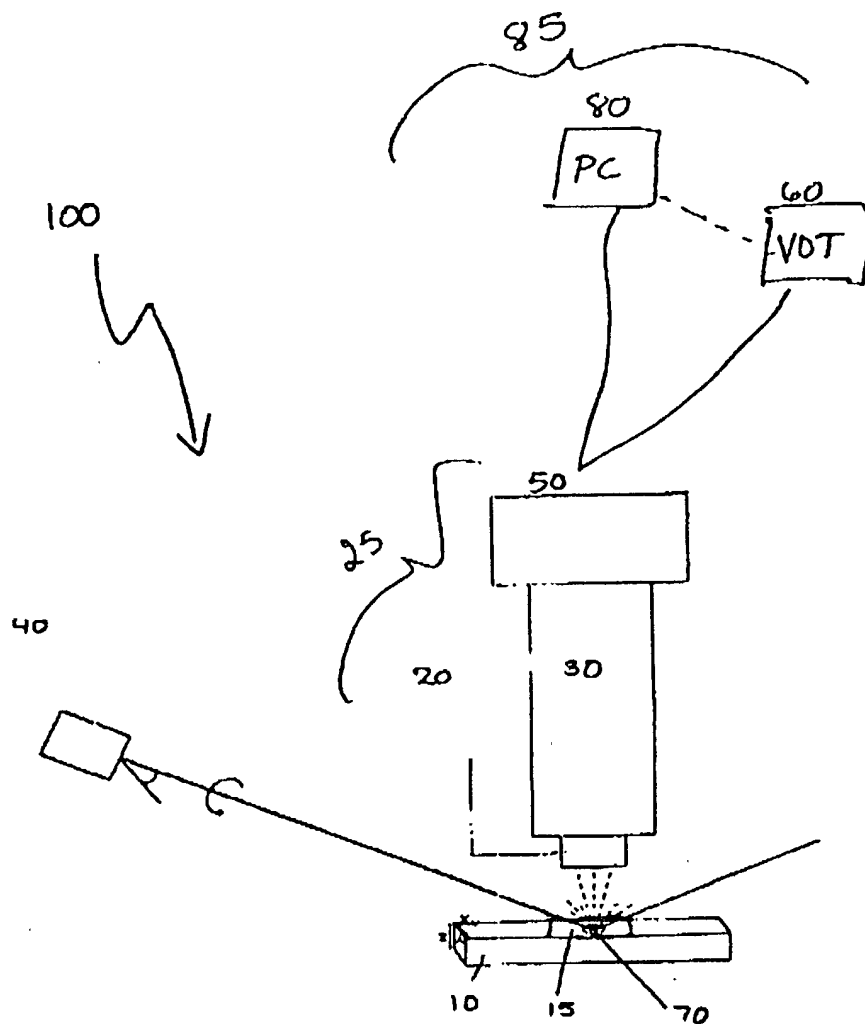


FIG. 15

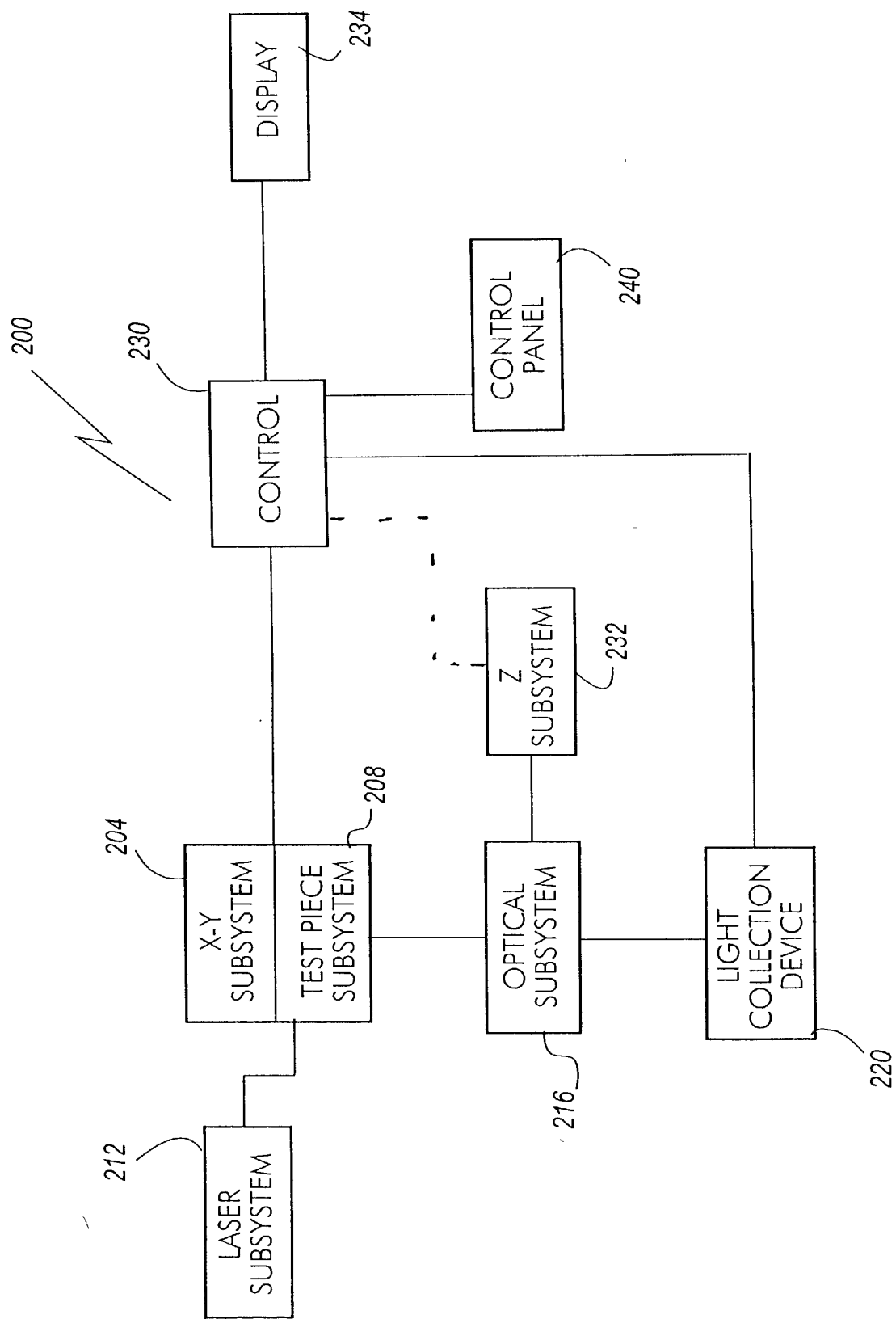


FIG. 16

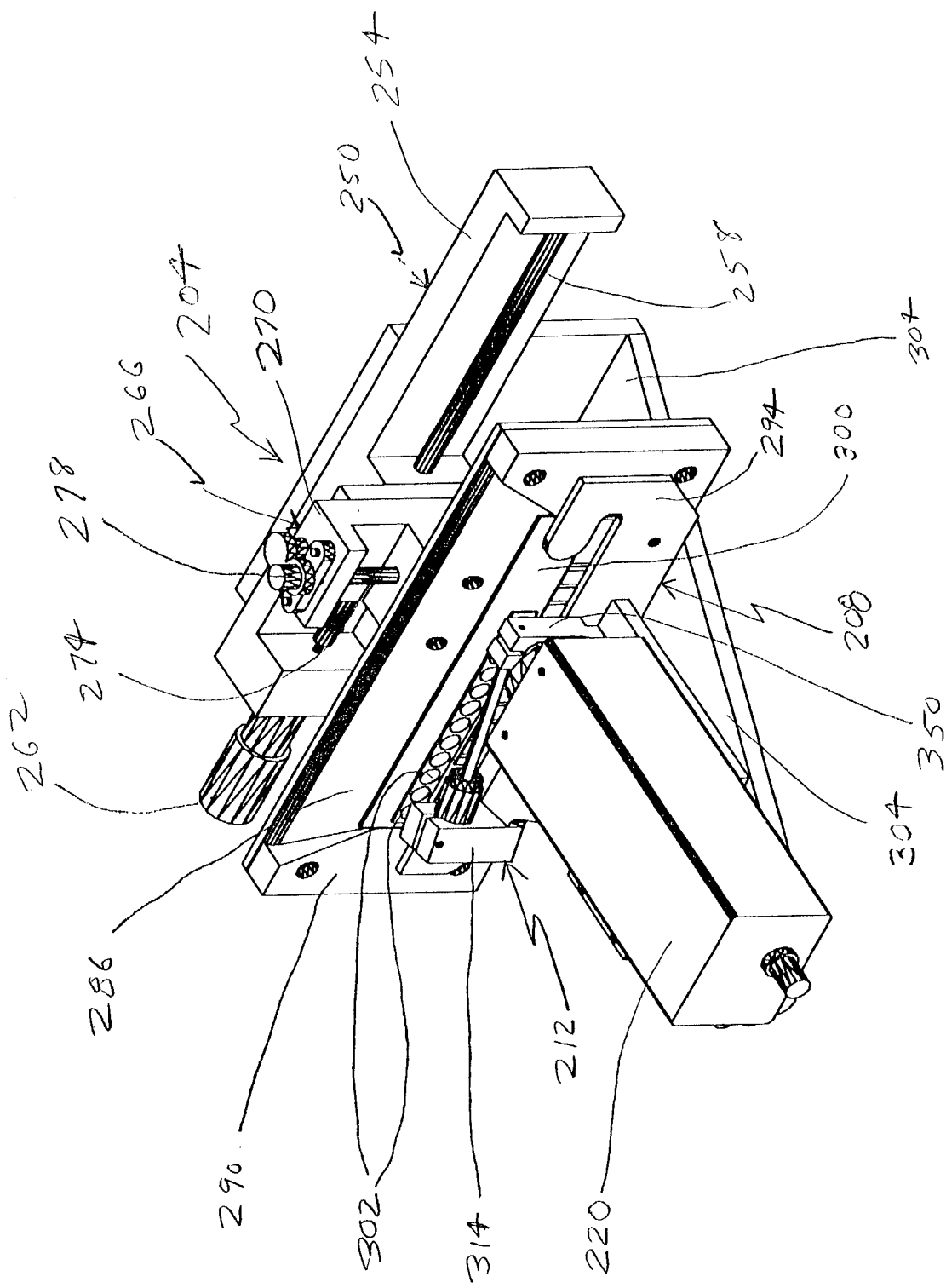


FIG. 17

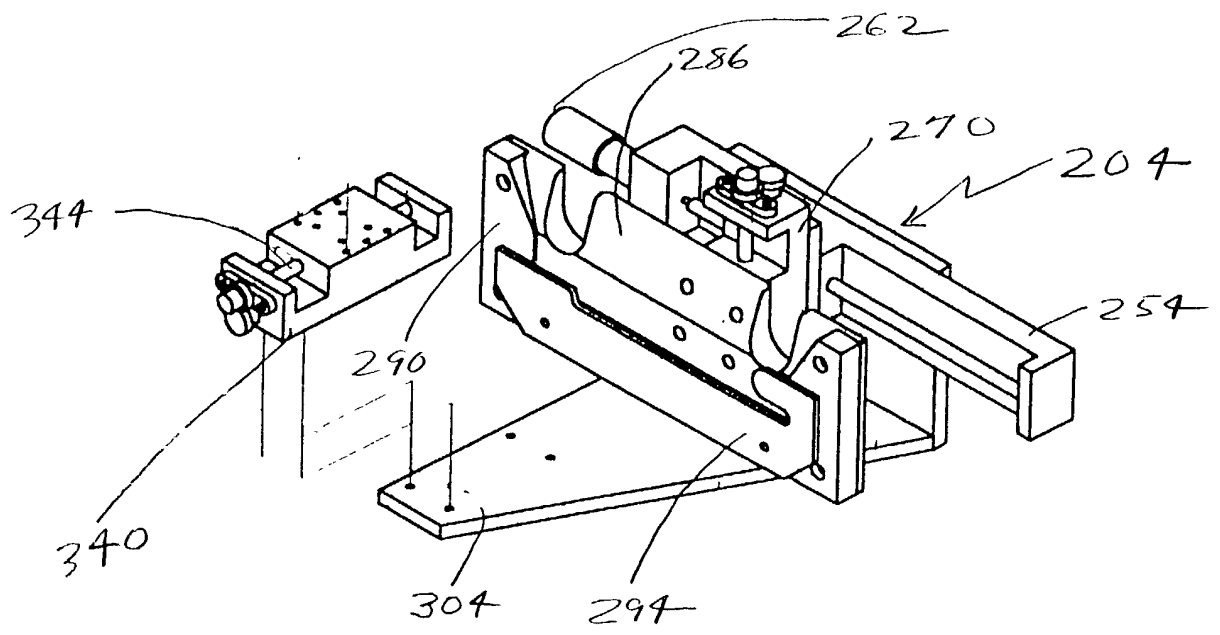


FIG. 19

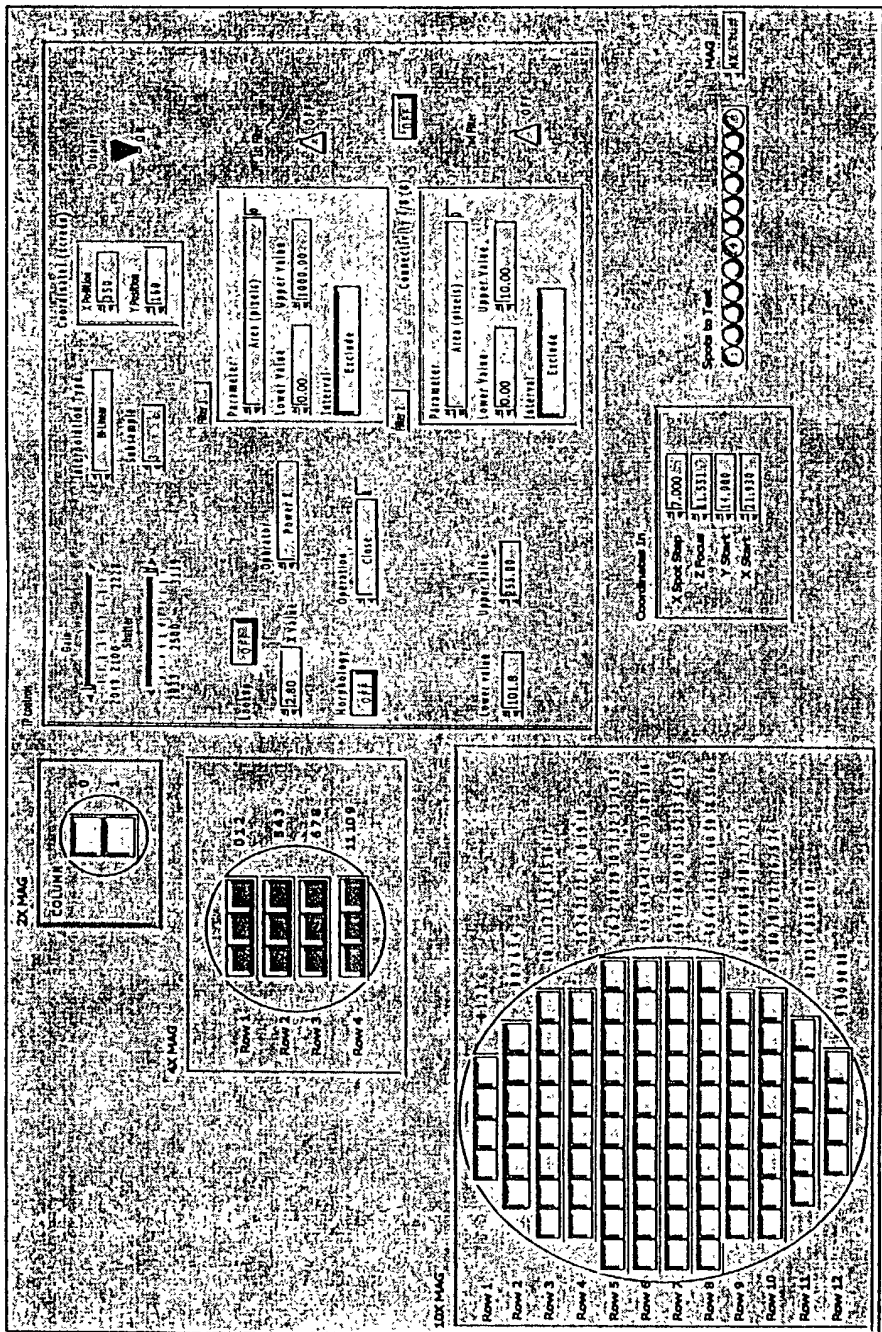


FIG. 21

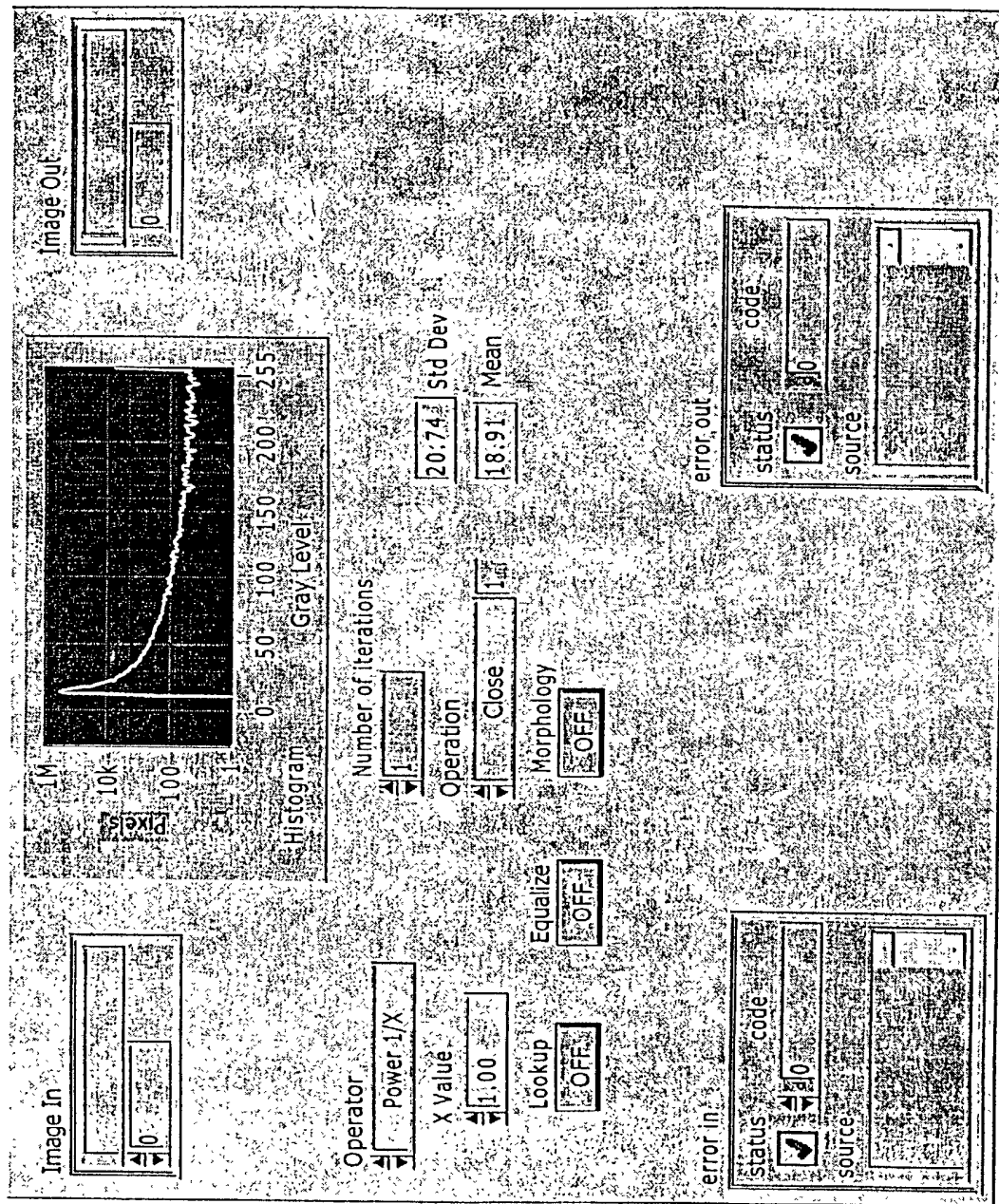


FIG. 22

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

INSTRUMENT SETUP

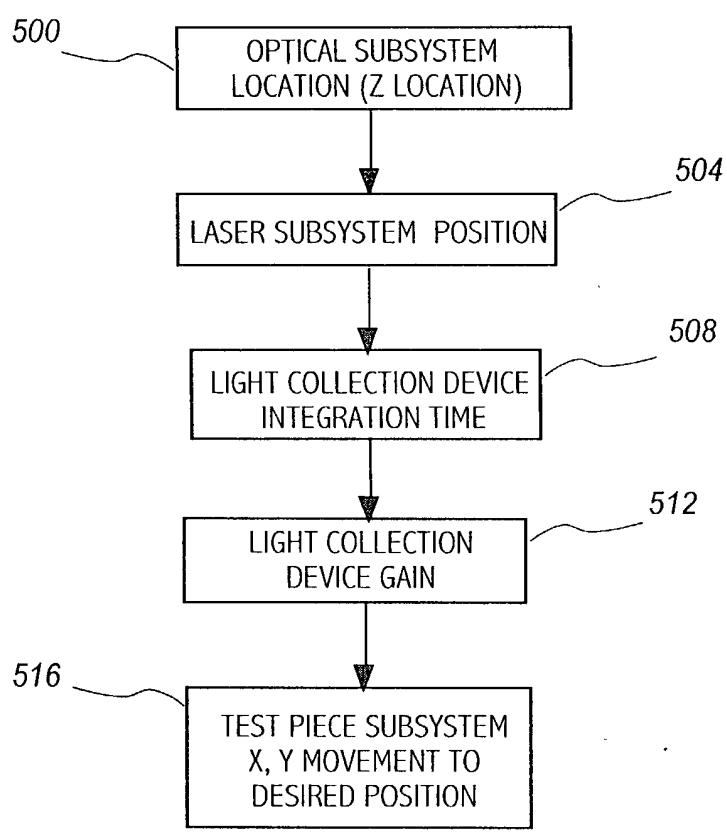


FIG. 23

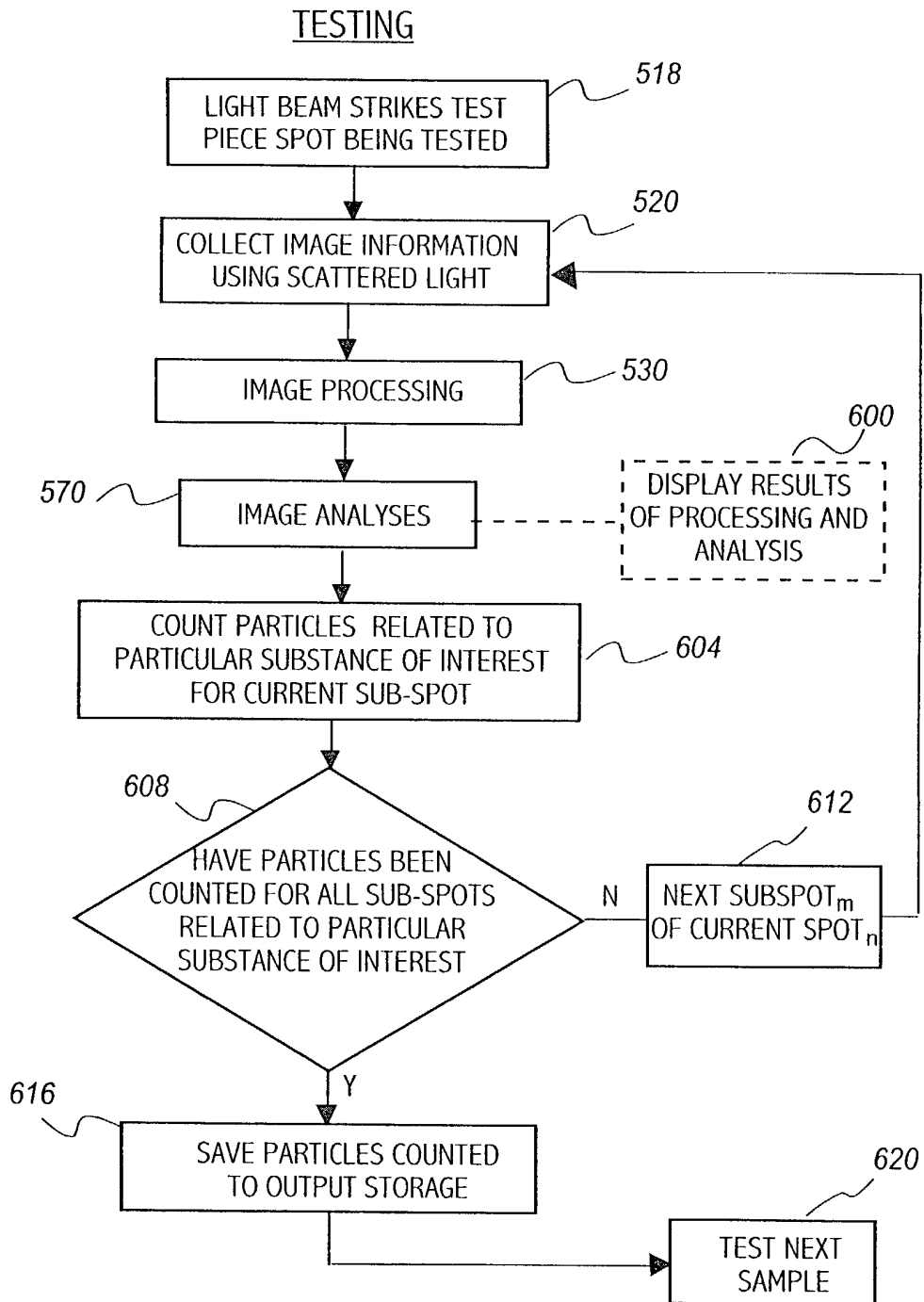


FIG. 24

[illegible]

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

IMAGE ANALYSIS

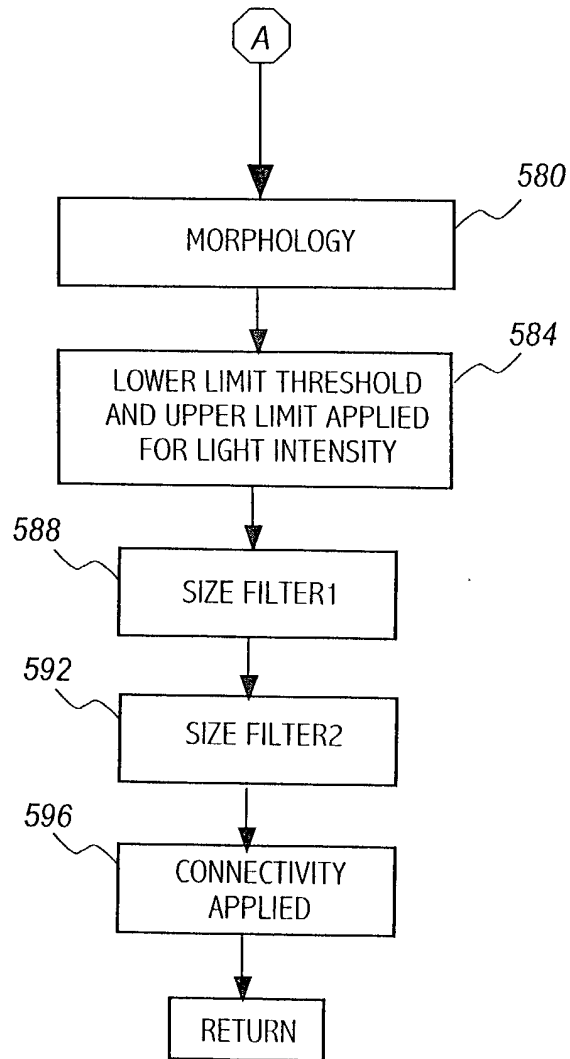


FIG. 26